

In the Claims:

1. (previously twice amended) An array of cells for an electrophoretic display wherein each of said cells comprises:
 - (a) surrounding partition walls,
 - (b) an electrophoretic composition filled therein, and
 - (c) a polymeric sealing layer which is formed from a sealing composition having a specific gravity lower than that of said electrophoretic composition and sealingly adheres to the surface of the partition walls to enclose said electrophoretic composition within each cell.
2. (previously amended) The cells of Claim 1 wherein said electrophoretic composition comprises charged particles dispersed in a dielectric solvent or solvent mixture.
3. (previously twice amended) The cells of Claim 1 which are driven by an electric field.
4. (previously amended) The cells of Claim 1 wherein said sealing composition comprises a material selected from a group consisting of polyvalent acrylate or methacrylate, cyanoacrylates, polyvalent vinyl, polyvalent epoxide, polyvalent isocyanate, polyvalent allyl, and oligomers or polymers containing cross linkable functional groups.
5. (previously amended) The cells of Claim 4 wherein said sealing composition further comprises a polymer or oligomer.
6. (previously twice amended) The cells of Claim 5 wherein said polymer or oligomer is soluble or dispersible in said composition.
7. (previously amended) The cells of Claim 4 wherein said sealing composition further comprises an additive.
8. (previously twice amended) An electrophoretic display comprising:
 - a) one top electrode plate and one bottom electrode plate, at least one of which is transparent; and
 - b) a plurality of cells enclosed between the two electrodes, each of said cells comprises:
 - (i) surrounding partition walls,
 - (ii) an electrophoretic composition filled therein, and
 - (iii) a polymeric sealing layer which is formed from a sealing composition having a specific gravity lower than that of said electrophoretic composition and sealingly adheres to the surface of the partition walls to enclose said electrophoretic composition within each cell.
9. (previously amended) The display of Claim 8 in which both said top electrode plate and sealing layer are transparent.

10. (previously twice amended) The display of Claim 9 wherein said top electrode plate is adhered to the sealing layer.

11. (previously cancelled)

12. (previously twice amended) The display of Claim 8 wherein said sealing composition comprises a material selected from a group consisting of polyvalent acrylate or methacrylate, cyanoacrylates, polyvalent vinyl, polyvalent epoxide, polyvalent isocyanate, polyvalent allyl, and oligomers or polymers containing crosslinkable functional groups.

13. (previously amended) The display of Claim 10 wherein said adhesion is through an adhesive layer formed from a pressure sensitive adhesive, a hot melt adhesive, a heat, moisture or radiation curable adhesive.

14. (previously amended) The display of Claim 13 wherein said sealing and adhesive layers are formed from different materials.

15. (previously amended) The display of Claim 13 wherein said sealing and adhesive layers are formed from the same material.

16. The display of Claim 15 wherein said material is a radiation curable material.

17. The display of Claim 8 in which the bottom electrode plate on the opposite side of the sealing layer is the viewing side, whereby said bottom electrode plate is transparent.

18. (previously twice amended) The display of Claim 17 wherein said top electrode plate is adhered to the sealing layer.

19. (previously amended) The display of Claim 18 wherein said adhesion is through an adhesive layer formed from a pressure sensitive adhesive, a hot melt adhesive, a heat, moisture or radiation curable adhesive.

20. (previously amended) The display of Claim 19 wherein said sealing and adhesive layers are formed from different materials.

21. (previously amended) The display of Claim 19 wherein said sealing and adhesive layers are formed from the same material.

22. The display of Claim 21 wherein said material is a radiation curable material.

23. A process for manufacturing an electrophoretic display comprising imagewise exposure through a photomask which moves at the same speed as a web substrate.

24. The process of Claim 23 wherein said web substrate comprises a conductor layer on a plastic substrate in which said conductor layer is coated with a radiation sensitive material.

25. The process of Claim 23 wherein said conductor layer is ITO.

26-31 (previously cancelled).

32. (previously amended; previously added) The electrophoretic display of Claim 8 wherein said cells are substantially uniform in size and shape.

33. (previously amended; previously added) The electrophoretic display of Claim 8 wherein said cells are of different sizes and shapes.

34. (previously amended; previously added) The electrophoretic display of Claim 8 wherein said cells are non-spherical.

35. (previously amended; previously added) The electrophoretic display of Claim 8 wherein the cells are formed from microcups with an opening having a circular, polygonal, hexagonal, rectangular or square shape.

36. (previously amended; previously added) The electrophoretic display of Claim 8 wherein the cells have an opening area ranging from about 10^2 to about $5 \times 10^5 \mu\text{m}^2$.

37. (previously added) The electrophoretic display of Claim 36 wherein the cells have an opening area ranging from about 10^3 to about $5 \times 10^4 \mu\text{m}^2$.

38. (previously amended; previously added) The electrophoretic display of Claim 8 wherein the cells have a depth in the range from about 3 to about 100 microns.

39. (previously added) The electrophoretic display of Claim 38 wherein the cells have a depth in the range from about 10 to about 50 microns.

40. (previously amended; previously added) The electrophoretic display of Claim 8 wherein the cells are formed from microcups have an opening to wall ratio in the range from about 0.05 to about 100.

41. (previously added) The electrophoretic display of Claim 40 wherein the cells are formed from microcups have an opening to wall ratio in the range from about 0.4 to about 20.

42. (previously amended; previously added) The cells of Claim 2 wherein said electrophoretic composition comprises charged white particles dispersed in a colored dielectric solvent or solvent mixture.

43. (previously amended; previously added) The cells of Claim 42 wherein said dielectric solvent or solvent mixture is colored by a dye or pigment.

44. (previously amended; previously added) The cells of Claim 43 wherein said dye or color pigment is uncharged or has a charge polarity different from that of the white pigment particles.

45. (previously amended; previously added) The electrophoretic display of Claim 8 wherein said sealing composition is a UV curable composition.

46. (currently amended; previously added) The electrophoretic display of Claim 8 wherein said sealing composition comprises a thermoplastic, ~~thermoset, or a precursor thereof~~ or thermoset precursor.

47. (previously amended; previously added) The cells of Claim 1 wherein said sealing composition is a UV curable composition.

48. (currently amended; previously added) The cells of Claim 1 wherein said sealing composition comprises a thermoplastic, ~~thermoset, or a precursor thereof~~ or thermoset precursor.

49. (previously amended; previously added) The cells of Claim 2 wherein said sealing composition is immiscible or incompatible with said dielectric solvent.

50. (previously cancelled)

51. (previously amended; previously added) The electrophoretic display of Claim 8 wherein said sealing composition is dissolved or dispersed in an organic solvent that is incompatible or immiscible with the electrophoretic composition.

52-53. (previously cancelled)

54. (previously added) The electrophoretic display of Claim 8 wherein said electrophoretic composition is partially filled in each of said cells.

55. (previously added) The electrophoretic display of Claim 54 wherein said partially filled electrophoretic fluid is in contact with said polymeric sealing layer.

56. (previously added) The cells of Claim 4 wherein said polyvalent vinyl is vinylbenzene, vinylsilane or vinylether.

57. (previously added) The cells of Claim 12 wherein said polyvalent vinyl is vinylbenzene, vinylsilane or vinylether.

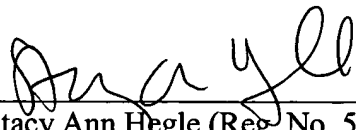
CONCLUSION

The amendments made to Claims 46 and 48 are supported throughout the application as filed, for example, on page 3, paragraph 8. No new matter is added by the amendment.

The Commissioner is authorized to charge any additional fees which may be required, including petition fees and extension of time fees, to Deposit Account No. **08-1641**, referencing attorney's docket no. **26822-0002 C1**.

Respectfully submitted,

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